

Amendments to the Specification

Please replace the paragraph at page 2, lines 2 through 4 with the following amended paragraph:

This invention relates generally to computer based methods of modeling processes, and more specifically to ~~method~~ methods for mapping business processes using an emergent model on a computer network.

Please replace the paragraph at page 4, line 24 through page 5, line 2 with the following amended paragraph:

Accordingly, the present invention provides a method ~~of~~ for mapping business and engineering processes by giving users access to a system for generating an emergent model and publishing inputs and/or outputs of models generated by the users. Published inputs and/or outputs of models generated are subscribed to by the users, thereby creating a network of linked inputs and/or outputs. The network of linked inputs and/or outputs are analyzed and displayed, resulting in a map of the business and engineering processes. The models generated are used in business and engineering processes.

Please replace the paragraph at page 17, lines 10 through 22 with the following amended paragraph:

Legacy applications (352-374) are collections of computer instructions that present an interface ~~existed~~ existing prior to the use of a newer system. Legacy applications (352-374) require a change in process or technique, such as translating data files formats in order to interface with the new system being modeled. Often this translation is accomplished through the use of “wrappers” provided by the new system. These wrappers allow legacy applications (352-374) to interface with models (302-322) to generate an emergent model 300. Additionally, objects of the present system can interface with legacy applications through code libraries loaded

by these applications, using the legacy application's API. Although the existence of legacy applications (352-374) is not required for the creation of an emergent model 300, their use often reduces the time required to generate an emergent model. Legacy applications (352-374) may also include enterprise-wide tools, such as Enterprise Resource Planning ("ERP") systems (e.g., SAP R/3 from SAP America Inc. in Newtown Square, Pennsylvania).

Please replace the paragraph at page 22, line 9 through page 23, line 2 with the following amended paragraph:

Figure 10 is a flowchart of the process of generating an emergent model according to an embodiment of the present invention. The process begins at step 600, at step 602 data and/or function objects are generated to create a model. For example, area object 520 (Figure 9b) represents a model generated according to step 602. Typically, a user is guided to generate objects by a user interface whereby commands can be issued to create objects and further commands can be issued to specify the values of the attributes/fields of those objects. At step 604, references to generated objects are published by making the object references available or known, such as through electronic media, print media or human conversation. At step 606, function objects or data objects are subscribed to by referencing the objects in function objects. For example, area function object 520 (Figure 9b) subscribes to objects 530, 540 and 550 (Figure 9b). At step 608, when changes are made to referenced data objects and/or function objects messages are sent to the referencing data objects and/or function objects. At step 610, when a function object receives a message that a referenced object changed and the function object does not filter the message, the function object solves its expression. Solving the expression may result in calling methods on the referenced objects, such as getting and setting the values of data objects or initiating the solvers of function objects. Solving the expression can result in changes in values of referenced objects which can result in additional messages being sent. At step 612, each object on each computing device is optionally stored when it is created, when the object changes or as needed. Storage of the individual objects results in the emergent model being stored in computing devices on the computer network, providing users the ability to further interact and enhance the emergent model.